

Curriculum Vitae



Theodore Patkos

PERSONAL INFORMATION

Date of Birth: July 12, 1980	Citizenship: Greek
Place of Birth: Thessaloniki, Greece	Marital Status: Married
	Military Duties: Fulfilled

CONTACT INFORMATION

E-mail: patkos@csd.uoc.gr
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WORK EXPERIENCE

Current

2020-present: Principal Researcher (Grade B') on Logic-based AI, with emphasis on Semantic Representations and Calculi for Dynamic Environments, **Foundation for Research and Technology – Hellas (FO.R.T.H.)**
<https://www.ics.forth.gr/>
2014-present: Visiting Instructor, Computer Science Department (CSD) – Post-graduate Program, **University of Crete**
<https://www.csd.uoc.gr/>

Past

2013-2020: Post-doctoral Researcher, Information Systems Laboratory (I.S.L.), Institute of Computer Science (I.C.S.), **Foundation for Research and Technology – Hellas (FO.R.T.H.)**
<https://www.ics.forth.gr/isl/>
2011-2013: Post-doctoral Research Engineer, Laboratoire Images Signaux & Systèmes Intelligents of the Institute of Technology of Créteil-Vitry et **Université Paris Est Créteil**
<https://www.lissi.fr/home/>
2004-2010: Research Assistant, Information Systems Laboratory (I.S.L.), Institute of Computer Science (I.C.S.), **Foundation for Research and Technology – Hellas (FO.R.T.H.)**
<https://www.ics.forth.gr/isl/>

EDUCATION

2005-2010: Ph.D. in Computer Science, Computer Science Department, **University of Crete**
Topic: “A Formal Theory for Reasoning about Action, Knowledge and Time”
Supervisor: Professor Dimitris Plexousakis
Scientific Areas: Cognitive Robotics, Ambient Intelligence, Action Theories, Context-aware Computing
2002-2004: M.Sc. in Information Systems, Computer Science Department, **University of Crete**
Topic: “A Semantic Marketplace of Peers Hosting Negotiating Intelligent Agents”
Supervisor: Associate Professor Dimitris Plexousakis
Scientific Areas: Semantic Web, Intelligent Software Agents, Peer-to-peer Systems
1998-2002: BS in Computer Science, Department of Informatics, **Aristotle University of Thessaloniki**

LANGUAGE CERTIFICATIONS

English:	Certificate of Proficiency in English, Michigan University Certificate in Advanced English, Cambridge University
German:	Zertifikat Deutsch als Fremdsprache (Grundstufe)

AWARDS & SCHOLARSHIPS

2021	Best Paper Award , with Ioannis Chrysakis, Giorgos Flouris, Maria Makridaki, Yannis Roussakis, Georgios Samaritakis, Nikoleta Tsabanaki, Elias Tzortzakakis, Elisjana Ymeralli, Tom Seymoens, Anastasia Dimou and Ruben Verborgh at the 35 th Annual IFIP WG 11.3 Conference on Data and Applications Security and Privacy (DBSec 2021), for the paper “A Rewarding Framework for Crowdsourcing to Increase Privacy Awareness”.
2018	Best Poster & Demo Award , with Vangelis Kritsotakis, Yannis Roussakis and Maria Theodoridou, at the 14 th SEMANTiCS 2018 European conference on Semantic Technologies and AI, for the contribution “Assistive Query Building for Semantic Data”.
2012	Best Paper Award with Abdelghani Chibani, Dimitris Plexousakis and Yacine Amirat at the 6 th International Symposium on Rules (RuleML'12), for the paper “A Production Rule-based Framework for Causal and Epistemic Reasoning”, which was invited for presentation in the Subarea Spotlight Track of the 26 th Conference on Artificial Intelligence (AAAI'12)
2009-2010	“ Manasaki ” Fellowship , by the University of Crete, for excellence in doctoral studies.
2008	Best Student Paper Award (with Dimitris Plexousakis) at the 5 th Hellenic Conference on Artificial Intelligence, SETN'08, for the paper “A Theory of Action, Knowledge and Time in the Event Calculus”.
2004-10	Student/Researcher Scholarship by the Institute of Computer Science, FORTH

RESEARCH PROJECTS

2020-present	<i>Message In A Bottle (RIS3Crete - KPHP1-0028556)</i> The project will develop a complete information system for supporting all processes related to wine production, offering services relevant both to the consumer and to the producer. Role (proposal-time): Participated in proposal writing Role (project time): Researcher in the fields of KR&R and the Semantic Web.
2020-present	<i>DebateLab (HFRI/EAI/AEK - 4195)</i> The project will develop theoretical and applied argumentation tools that will pave the way for the vision of an Argument Web. The project’s use cases revolve around the domain of eJournalism. Role (proposal-time): Proposal Co-coordinator Role (project time): Researcher in the fields of KR&R, Computational Argumentation and the Semantic Web.
2018-present	<i>SoCoLA (HFRI/EAI/AEK - 188)</i> The project will develop intelligent agents with social and cognitive skills, within the field of Social Robotics. Role (proposal-time): Proposal Coordinator Role (project time): Principal Investigator of the project, involving 4 Researchers, 2 PhD students, 2 MSc students.
2019-2020	<i>CAP-A (NGI-Trust Open Call - 11)</i> The project developed tools for empowering the role of human users in promoting privacy when using digital services. Role (proposal-time): Proposal Co-coordinator Role (project time): Scientific Coordinator of the project
2015-2018	<i>VRE4EIC (H2020-EU.1.4.1.3.- 676247)</i> . The project aimed to develop a reference architecture and prototypes to be used for future VREs including building blocks that can be used to improve existing VREs. The project addressed the key data and software challenges in supporting multidisciplinary data driven sciences. Role (proposal-time): Coordinated FORTH during proposal writing Role (project time): (as of June 2018) Scientific Coordinator of FORTH (before June 2018) Researcher – Design and Implementation of mapping methodologies for enhancing interoperability between diverse knowledge sources.
2013-2016	<i>Lifewatch (NSRF/EZIIA - 384676)</i> . The overall objective of the project is to ally all the Greek scientific human potential working on Biodiversity data and data observatories, in Greece and abroad, in order to achieve a world-class excellence national LifeWatch Centre.

- Role (project time):** Researcher – Design and Implementation of a statistical analysis environment for parallel computing.
- 2013-2015 *EICOS* - Foundations for perSONalized Cooperative Information Ecosystems (funded by "Thalis" call of Ministry of Education, operation programme "Education and Lifelong Learning, NSRF 2007 -2013): The aim of EICOS was to provide the methodology, the theoretical and modeling foundations as well as the algorithmic techniques and the necessary software architecture that will facilitate the personalization, integration, and evolution management facilities for information ecosystems
- 2013-2015 **Role (project time):** Researcher – Design of modeling methodologies Multi-Context Reasoning in Heterogeneous Environments, Slovak-Greece Research and Development Cooperation (GGET 12SLO_ET29_1087). The aim of the project is the development of a framework for defeasible reasoning in multi-agent heterogeneous environments in the context of smart spaces.
- 2011-2013 **Role:** Post-doctoral researcher – Knowledge Representation and Reasoning *Predykot (ITEA 2 - 10035)*. The project aims to provide an innovative, modular and consistent suite to ensure that a policy (access control security, SLA etc) remains efficient whatever changes occur to it: administrative, contextual etc.
- 2011-2013 **Role:** Researcher – Semantic Knowledge Representation and Reasoning with Formal Methods *A2Nets (ITEA 2 - 09031)*. The project aims to apply autonomic computing and communication paradigms in the context of M2M networks and enable interoperability between different vertical domain M2M applications and services.
- 2011-2013 **Role:** Researcher – Semantic Knowledge Representation and Reasoning *Web of Objects (ITEA 2 - 10028)*. The project's goal is to turn up the Internet of Things promises by simplifying object and application deployment, commissioning, maintenance, operation and service composition inside building infrastructures.
- 2007-2010 **Role:** Researcher – Semantic Knowledge Representation and Reasoning *Ambient Intelligence (AmI) Programme*. Served as workpackage leader and coordinator of WP5 "Information Representation and Management" in the multi-disciplinary Ambient Intelligence project. The responsibility of the group was to develop a semantics-based reasoning framework for context-aware smart spaces (other members were 2 Professors, 1 PhD candidate, 2 R&D engineers and several undergraduate and postgraduate students). Funded by the Foundation for Research and Technology, Hellas.
- 2009 **Role:** Researcher, WP leader *S-Cube*. I was involved in the European Network of Excellence in Software Services and Systems (S-Cube), which aims at establishing a research community to contribute in and reshape the field of software services and systems. Funded by the European Community's 7th Framework Programme FP7/2007-2013.
- 2003 *Crisatel*. As a post-graduate student I was involved in the "Conservation Restoration Innovation Systems for image capture and digital archiving to enhance Training, Education and longlife Learning" project, which aimed at developing a technology and information environment to preserve paintings and the created digital resources in long terms. Funded under EU-IST 5th Framework Programme.

APPLIED RESEARCH AND INNOVATION

- 2019-present *ECAVI* – An educational platform and an IDE for designing Event Calculus theories. Synergies: OMiLAB NPO
- 2016-present *Le Sommelier* (<https://www.lesommelier.gr/>) – A Personal Wine Assistant reasoning system, applying ASP reasoning for food-wine pairing. Synergies: Opus Wine Bar, Super Market Xalkiadakis, Cinque Wine and Deli Bar, H2B Hub
- 2017-present *CAPrice* (<https://www.caprice-community.net/>) – A collective awareness platform for privacy concerns and expectations. Synergies: Supported by a grassroots community comprising more than 800 individuals.
- 2016-present *Apopsis* (<http://139.91.183.40:8080/apopsis/home.jsp>) – A debate portal applying argumentative reasoning based on the smDice framework and Machine Learning for the analysis of dialogues.

- 2016-2019 *Methinks* (<https://methinks.ics.forth.gr/>) – A review management system applying the smDice framework for evaluating online comments.
Synergies: Marin Hotel, EyeWide Digital Marketing Agency

RESEARCH INTERESTS

- Knowledge/Logic-based Artificial Intelligence
- Knowledge Representation and Reasoning
- Causal Reasoning and Action Theories
- Logic Programming (Prolog, ASP)
- Computational Argumentation
- Semantic Web
- Cognitive Robotics
- Human-Robot Interaction
- Ambient Intelligence
- Context-aware Computing
- Collective Intelligence
- Intelligent Software Agents
- Peer-to-peer Systems

SCIENTIFIC ACTIVITIES

Co-chair of the **RuleML+RR 2017 Doctoral Consortium**, held in London, UK, with Antonis Bikakis (UCL)

Co-chair of the 12th **International Symposium on Logical Formalizations of Commonsense Reasoning** (Commonsense 2015) held in Stanford, California, with Leora Morgenstern (Leidos) and Robert Sloan (University of Illinois at Chicago).

Co-chair of the **RuleML 2014 Challenge** (8th International Rule Challenge) held in Prague, Czech Republic, in collocation with the 21st European Conference on Artificial Intelligence, with Adam Wyner (University of Aberdeen, UK) and Adrian Giurca (Brandenburg University of Technology Cottbus–Senftenberg, Germany).

Co-chair of the **Special Session on Action Languages**, held in the 8th Hellenic Conference on Artificial Intelligence SETN'14, with Alexander Artikis (NCSR Demokritos, Greece), Marco Montali (Free University of Bozen-Bolzano, Italy) and Stavros Vassos (Sapienza University of Rome, Italy).

Co-chair of the **Sensing, Reasoning and Actuation in Ubiquitous Systems and Cloud Robotics** track of the 4th International Conference on Emerging Ubiquitous Systems and Pervasive Networks (EUSPN'13), with Abdelghani Chibani (University of Paris-Est, France) and Eric Matson (Purdue University, USA)

Member of the **Hellenic Association for Artificial Intelligence (EETN)** (since 2006)

Served as reviewer or external reviewer in numerous journals and conferences, including:

- Theory and Practice in Logic Programming (2021)
- The 11th Hellenic Conference on Artificial Intelligence (SETN'20)
- The 17th European Conference on Multi-Agent Systems (EUMAS-20)
- The 13th International Symposium on Commonsense Reasoning (Commonsense-17)
- The 25th International Joint Conference on Artificial Intelligence (IJCAI-16)
- The 9th Hellenic Conference on Artificial Intelligence (SETN'16)
- The ACM Transactions on Autonomous and Adaptive Systems (TAAS 2015)
- The RuleML Special Issue of the Theory and Practice in Logic Programming (2015)
- The International Web Rule Symposium (RuleML '13,14,15)
- The 7th Multi-Disciplinary International Workshop on Artificial Intelligence (MIWAI'13)
- Special Issue on Ubiquitous Networked Robots (UNR) of Journal Annals of Telecommunications- Springer (2011)
- International Journal on Artificial Intelligence Tools - IJAIT (2010)
- Annals of Mathematics and Artificial Intelligence (2009)
- Ontologies, DataBases, and Applications of Semantics (ODBASE'10)
- The IEEE International Conference on Web Services (ICWS'07)
- The IEEE Joint Conference on E-Commerce Technology (CEC'06) and Enterprise Computing, E-Commerce and E-Services (EEE'06)
- The 5th International Workshop on Agents and Peer-to-Peer Computing (AP2PC 2006)
- The 6th International Conference on Web Information Systems Engineering (WISE-05)
- The 2nd European Semantic Web Conference (ESWC-05)

Translated in Greek the second edition of Grigoris Antoniou and Frank van Harmelen's "A Semantic Web Primer", Klidarithmos edt. 2009 (in cooperation with PhD Student Stratos Kontopoulos).

TEACHING EXPERIENCE

- 2017-present Visiting Instructor, Instructor of the post-graduate course HY-567 Knowledge Representation and Reasoning, Computer Science Department, University of Crete.
- 2014-2016 Visiting Instructor, co-instructor (with Prof. Dimitris Plexousakis) of the post-graduate course HY-567 Knowledge Representation and Reasoning, Computer Science Department, University of Crete.
- 2003-2010 Teaching Assistant in several courses related to Database Management Systems, Logic, Business Process and Workflow Management Systems, Data Structures, Discrete Mathematics and Programming in the Computer Science Department, University of Crete.
- 2008 Served as guest speaker in the seminar of KEK Training schools of Iraklio's Chamber in cooperation with the University of Crete titled "Business Process Management and e-Services" organized by the Regional Innovation Pole of Crete (September 2008).
- Invited Lecturer at the 3rd, 4th, 5th, 6th and 7th Next-Generation Enterprise Modelling in the Age of Internet of Things – Nemo Summer School (2016, 2017, 2018, 2019, 2021).

STUDENT SUPERVISION

PhD

- 2019-present **Filippos Gouidis** (PhD Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Antonis Argyros and Dr. Giorgos Flouris. Topic (tentative): Towards coupling Machine Vision with symbolic AI to achieve Visual Intelligence
- 2019-present **Alexandros Vassiliades** (PhD Student). Co-supervised with Prof. Nick Bassiliades, Prof. Dimitris Plexousakis. Topic (tentative): Exploiting knowledge from the Semantic Web to promote cognitive and argumentative behavior of agents in the field of Social Robotics
- 2013-2019 **Dimitra Zografistou** (PhD Student). Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: ArgQL A Query Language for Computational Argumentation

Postgraduates

- 2018-2019 **Nena Basina** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: An Event-Calculus Visual Assistant Environment
- 2018-2019 **Konstantinos Kreatsoulas** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: A Community Portal for Expressing Privacy Concerns and Expectations
- 2016-2018 **Nikolas Zourbakis** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis. Topic: Solving Simulated Application Scenarios with the use of Commonsense Reasoning.
- 2016-2017 **Tsabanaki Nikoleta** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: A Commonsense-Driven Model of Belief Revision for Dynamic Domains using the Event Calculus
- 2016-2017 **Lilitsis Prodromos** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: Travel Companion: A mobile system for trip assistance relying on Artificial Intelligence and Augmented Reality
- 2015-2016 **Ymerali Elisiana** (MSc Student) Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: A Web-based Platform for the Analysis of Structured Dialogues
- 2013-2015 **Filippos Gouidis** (MSc Student), Co-supervised with Prof. Dimitris Plexousakis and Dr. Giorgos Flouris. Topic: Algorithms for Plan Repairing
- 2010-2011 **Xrysi Fillipaki** (MSc Student). Co-supervised with Prof. Grigoris Antoniou and Assist. Prof. Ioannis Tsamardinis. Topic: Rule-based Complex Event Detection.
- 2008-2009 **Ioannis Androulakis**, Co-supervised with Prof. Dimitris Plexousakis. Topic: A Semantic Peer-to-Peer Marketplace Hosting Trusted Negotiations Among Intelligent Agents.
- 2008-2009 **Lito Kriara** (MSc Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Grigoris Antoniou, Assist. Prof. Maria Papadopouli, PhD Student Antonis Bikakis. Topic: Experimenting with the Fingerprinting Method Using Signal-based Measurements for Providing Positioning Information to Location-based Applications.

- 2007-2008 **Maria Michou** (MSc Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Grigoris Antoniou, PhD Student Antonis Bikakis. Topic: A Semantics-based User Model for the Support of Personalized, Context-aware Navigation Services.
- 2007-2008 **Emmanouil Nikoloudakis** (MSc Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Grigoris Antoniou, PhD Student Antonis Bikakis. Topic: Semantics-based User Tracking and Dynamic Re-planning for a Contextual Guide.
- 2007-2008 **Emmanouil Kristotakis** (MSc Student). Co-supervised with Prof. Dimitris Plexousakis, Prof. Grigoris Antoniou, PhD Student Antonis Bikakis. Topic: Semantics-based Navigation for a Contextual Guide.
- Graduates*
- 2019 **Georgia Markopoulou** (Supervised Study at FORTH - BSc Student at the Department of Information and Communication Systems Engineering, University of Aegean). Topic: Study on the capabilities of automated dialogue systems.
- 2017 **Manolis Dermitzakis** (BSc Student). Co-supervised with Dr. Giorgos Flouris and Prof. Dimitris Plexousakis. Topic: A semantics-enabled publication management portal.
- 2017 **Vaggelis Theodorakopoulos** (BSc Student) Co-supervised with Prof. Dimitris Plexousakis. Topic: An ASP University Scheduler
- 2015 **Georgios Smyrniaios** (BSc Student). Co-supervised with Prof. Dimitris Plexousakis, Dr. Giorgos Flouris, Dr Irini Fundulaki and Dr Panagiotis Papadakos
- 2015 **Ioannis Moschonas** (BSc Student). Co-supervised with Prof. Dimitris Plexousakis, Dr. Giorgos Flouris, Dr Irini Fundulaki and Dr Panagiotis Papadakos
- 2015 **Nikoleta Tsabanaki** (BSc Student). Co-supervised with Prof. Dimitris Plexousakis. Le Sommelier - A prioritised Multi-Criteria Recommendation System for Wine Matching Using ASP.
- 2011 **Spyros Roussogiannakis** (BSc Student). Co-supervised with Prof. Dimitris Plexousakis, Topic: An Event Calculus Planner on top of DECReasoner.
- 2010 **Elena Epitropaki** (BSc Student). Co-supervised with Prof. Grigoris Antoniou and MSc Student Maria Michou. Topic: Rule-based context guide for portable devices.
- 2010 **Stavros Kirikos** (BSc Student). Co-supervised with Prof. Dimitris Plexousakis, Topic: Presentation and Benchmarking of DL Reasoners.

PUBLICATIONS

Book Chapters

- Abdelghani Chibani, Antonis Bikakis, Theodore Patkos, Yacine Amirat, Sofiane Bouznad, Naouel Ayari, Lyazid Sabri, “**Using Cognitive Ubiquitous Robots for Assisting Dependent People in Smart Spaces**”, Intelligent Assistive Robots, Springer Tracts in Advanced Robotics 106, pp 297-316, 2015.

Peer-reviewed Journals, Conferences and Workshops

2021

- Vassiliades, Th. Patkos, G. Flouris, A. Bikakis, N. Bassiliades, D. Plexousakis, "**Abstract Argumentation Frameworks with Domain Assignments**". 30th International Joint Conference on Artificial Intelligence (IJCAI-21), Montreal, Canada, 2021.
- Alexandros Vassiliades, Nick Bassiliades, and Theodore Patkos, "**Argumentation and explainable artificial intelligence: A survey**". The Knowledge Engineering Review, 36, 2021.
- Katerina Papantoniou, Panagiotis Papadakos, Theodore Patkos, Giorgos Flouris, Ion Androutsopoulos, Dimitris Plexousakis, "**Deception Detection in Text and its Relation to the Cultural Dimansion of Individualism-Collectivism**". Natural Language Engineering, 2021.
- Alexandros Vassiliades, Theodore Patkos, Vasilis Efthymiou, Antonis Bikakis, Nick Bassiliades, Dimitris Plexousakis, "**Object-Action Association Extraction from Knowledge Graphs**". To appear in SEMANTICS 2021.
- Ioannis Chrysakis, Giorgos Flouris, Maria Makridaki, Theodore Patkos, Yannis Roussakis, Samaritakis Giorgos, Nikoleta Tsampanaki, Elias Tzortzakakis, Elisjana Ymeralli, Tom Seymoens, Anastasia Dimou, and Ruben Verborgh, "**A Rewarding Framework for Crowdsourcing to Increase Privacy Awareness**". To Appear in the 35th Annual IFIP WG 11.3 Conference on Data and Applications Security and Privacy (DBSec 2021), Calgary, Canada, 19-20/7 2021

(Received a Best Paper Award)

2020

- Filippou Gouidis, Alexandros Vassiliades, Theodore Patkos, Antonis Argyros, Nick Bassiliades, Dimitris Plexousakis, “**A Review on Intelligent Object Perception Methods Combining Knowledge-based Reasoning and Machine Learning**”, To appear in: AAAI-MAKE: Combining Machine Learning and Knowledge Engineering in Practice, AAAI Spring Symposia 2020, Stanford University, Palo Alto, California, USA, 2020
- Alexandros Vassiliades, Nick Bassiliades, Filippou Gouidis, and Theodore Patkos, “**A Knowledge Retrieval Framework for Household Objects and Actions with External Knowledge**”. In: Blomqvist E. et al. (eds) Semantic Systems. In the Era of Knowledge Graphs. SEMANTICS 2020. Lecture Notes in Computer Science, pp 36-52, vol 12378, 2020.
- Alexandros Vassiliades, Theodore Patkos, Antonis Bikakis, Giorgos Flouris, Nick Bassiliades and Dimitris Plexousakis, “**Preliminary Notions of Arguments from Commonsense Knowledge**”. In the 11th Hellenic Conference on Artificial Intelligence (SETN 2020), p. 211-214 Athens, Greece, 2020.
- Ioannis Chrysakis, Giorgos Flouris, George Ioannidis, Maria Makridaki, Theodore Patkos, Yannis Roussakis, Georgios Samaritakis, Alexandru Stan, Nikoleta Tsabanaki, Elias Tzortzakakis and Elisjana Ymeralli, “**Evaluating the data privacy of mobile applications through crowdsourcing**”, 33rd International Conference on Legal Knowledge and Information Systems (JURIX 2020), December 9-11, 2020.
- Alexandru Stan, Konstantina Geramani, George Ioannidis, Ioannis Chrysakis, Giorgos Flouris, Maria Makridaki, Theodore Patkos, Yannis Roussakis, Georgios Samaritakis, Nikoleta Tsampanaki, Elias Tzortzakakis, Elisjana Ymeralli, “**CAP-A: A community-driven approach to privacy awareness**”, In Proceedings of the NEM Summit 2020, B’ Smart – European Media Science and Technology Meets Arts, Application, Experimental and Business Track, 2020.
- Ioannis Chrysakis, Giorgos Flouris, Theodore Patkos, Anastasia Dimou, Ruben Verborgh. REWARD: Ontology for reward schemes. In Poster Proceedings of the 17th Extended Semantic Web Conference (ESWC-20), p. 56-60, 2020.

2019

- Nikoleta Tsampanaki, Theodore Patkos, Giorgos Flouris, Dimitris Plexousakis, “**Revising event calculus theories to recover from unexpected observations**”, Annals of Mathematics and Artificial Intelligence, <https://doi.org/10.1007/s10472-019-09663-5>, 2019
- Dimitris Arampatzis, Maria Doulgeraki, Michalis Giannoulis, Evropi Stefanidi, Theodore Patkos, “**EduBAI: An Educational Platform for Logic-Based Reasoning**”. In: MacIntyre J., Maglogiannis I., Iliadis L., Pimenidis E. (eds) Artificial Intelligence Applications and Innovations. AIAI 2019, IFIP AICT 559, pp. 464–472, 2019

2018

- Filippou Gouidis, Theodore Patkos, Giorgos Flouris, Dimitris Plexousakis, “**Dynamic Repairing A*: a Plan-Repairing Algorithm for Dynamic Domains**”, In proceedings of the 10th International Conference on Agents and Artificial Intelligence, 2018.
- Dimitra Zografistou, Giorgos Flouris, Theodore Patkos, Dimitris Plexousakis, “**Implementing the ArgQL Query Language**”, in Proceedings of the 7th International Conference on Computational Models of Argument (Comma-18), pp. 241-248, 2018
- Vangelis Kritsotakis, Yannis Roussakis, Theodore Patkos, Maria Theodoridou, “**Assistive Query Building for Semantic Data**”, in Poster/Demo Proceedings of the 14th European conference on Semantic Technologies and AI (SEMANTiCS-18), 2018
(Received a Best Demo and Poster Award) (blind review)
- Prodormos Lilitsis, Theodore Patkos, Giorgos Flouris, Dimitris Plexousakis, “**Travel Companion: A mobile system for trip assistance relying on Artificial Intelligence and Augmented Reality**”, Poster Session in the 10th Hellenic Conference on Artificial Intelligence (SETN-18), Patras 9-12 July, 2018.
- Giorgos Flouris, Theodore Patkos, Ioannis Chrysakis, Ioulia Konstantinou, Nikolay Nikolov, Panagiotis Papadakis, Jeremy Pitt, Dumitru Roman, Alexantru Stan, Chrysostomos Zeginis, “**Towards a Collective Awareness Platform for Privacy Concerns and Expectations**”, Confederated International Conferences: CoopIS, C&TC, and ODBASE 2018, Valletta, Malta, October 22-26, 2018

2017

- Elisjana Ymeralli, Giorgos Flouris, Theodore Patkos, Dimitris Plexousakis. “**APOPSIS: A Web-based Platform for the Analysis of Structured Dialogues**”. In Proceedings of the 16th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE-17), 2017.

- Nikoleta Tsubanaki, Giorgos, Flouris, Theodore Patkos, “**Steps Towards Commonsense-Driven Belief Revision in the Event Calculus**”, In Proceedings of the 13th International Symposium on Commonsense Reasoning (Commonsense-17), 2017.
 - Ioannis Chrysakis, Emmanouil Dermitzakis, Giorgos Flouris, Theodore Patkos, Dimitris Plexousakis. “**PRESS: A Publication REpository Semantic System**”. In Poster/Demo Proceedings of the 13th International Conference on Semantic Systems (SEMANTiCS-17), 2017.
 - Giorgos Flouris, Theodore Patkos, Ilia Adami, Antonis Bikakis, Manos Dimitrakis, George Mathioudakis, Giannis Roussakis, Dimitris Plexousakis. “**Methinks: Enabling Sophisticated Comment Management in the Social Web**”. In Poster/Demo Proceedings of the 13th International Conference on Semantic Systems (SEMANTiCS-17), 2017.
 - Keith G. Jeffery, Carlo Meghini, Cesare Concardia, Theodore Patkos, Valerie Brasse, Jacco von Osssenbruck, Yannis Marketakis, Nikos Minadakis, Eda Marchetti “**A Reference Architecture for Virtual Research Environments**”, in the Proceedings of the 15th International Symposium of Information Science (ISI 2017), pages 76-88, 2017.
- 2016**
- Theodore Patkos, Giorgos Flouris, Antonis Bikakis, “**A Multi-Aspect Evaluation Framework for Comments on the Social Web**”, in the 15th International Conference on Principles of Knowledge Representation and Reasoning (KR’16), pages 593-596, 2016.
 - Theodore Patkos, Dimitris Plexousakis, Abdelghani Chibani, Yacine Amirat, “**An Event Calculus Production Rule System for Reasoning in Dynamic and Uncertain domains**”, in Theory and Practice of Logic Programming (TPLP) Volume 16, Issue 3, pp. 325-352, 2016.
 - Theodore Patkos, Giorgos Flouris, Antonis Bikakis, “**Symmetric Multi-Aspect Evaluation of Comments - Extended Abstract**”, European Conference on Artificial Intelligence (ECAI’16), pp. 1672-1673, 2016.
 - Yannis Tzitzikas, Carlo Allocca, Chryssoula Bekiari, Yannis Marketakis, Pavlos Fafalios, Martin Doerr, Nikos Minadakis, Theodore Patkos, Leonardo Candela, “**Unifying heterogeneous and distributed information about marine species through the top level ontology MarineTLO**”, Emerald Group Publishing Limited, Program, Vol. 50:1, pp. 16 - 40, 2016.
 - Constantinos Varsos, Theodore Patkos, Anastasis Oulas, Christina Pavludi, Alexandros Gougousis, Umer Zeeshan Ijaz, Irene Filiopoulou, Nikolaos Pattakos, Edward Vanden Berghe, Antonio Fernández-Guerra, Sarah Faulwetter, Eva Chatzinikolaou, Evangelos Pafilis, Chryssoula Bekiari, Martin Doerr, Christos Arvanitidis, “**Optimized R functions for analysis of ecological community data using the R virtual laboratory (RvLab)**”, Biodiversity Data Journal, 2016
- 2015**
- Martin Homola, Theodore Patkos, Giorgos Flouris, Jozef Frtus, Alexander Simko, Jan Sefranek, Dimitra Zografistou, Martin Balaz, “**Resolving Conflicts in Knowledge for Ambient Intelligence**”, The Knowledge Engineering Review (KER), Vol. 30:5, Cambridge University Press, pp. 455-513, 2015.
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